

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/821,120	03/29/2001	Dwip N. Banerjee	AUS9-2000-0927-US1	3269

7590 09/29/2004
International Business Machines Corporation
Intellectual Property Law Department
Internal Zip 4054
11400 Burnet Road
Austin, TX 78758

EXAMINER

PRIETO, BEATRIZ

ART UNIT	PAPER NUMBER
----------	--------------

2142

DATE MAILED: 09/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/821,120	Applicant(s) BANERJEE ET AL.
	Examiner Prieto B	Art Unit 2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This communication is in response to Application No. 09/821,120 filed 03/29/01, claims 1-18 remain pending and have been examined.

2. Acknowledge is made to applicants statement under 37 C.F.R. Section 1.97(b) filed 03/29/01. Drawings are accepted by examiner for the purposes of examination. No claim priority is noted.

Claim Rejection under 35 U.S.C. 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3, 7-9 and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by LIM et. al. U.S. Patent No. 5,884,024 (Lim hereafter).

Regarding claims 1-3, 7 and 13, Lim teaches substantial features of the invention as claimed, teaching a system of Fig. 1, including a computer network (100) with user access for communicating with a plurality of server (108) of said network (col 5/line 27) via a client computer station (102) controlled by a plurality of data processor (col 3/lines 46-53), the system comprising:

a service provider means (106-110) supporting a set of said clients (col 2/lines 48-51), the service provider means including:

means (110) responsive to a query request from a client computer station for assigning and sending an IP address to the requesting client computer station (means 110: col 5/lines 10-25, query request: col 5/lines 27-30, 38-48 and 400 of Fig. 4, assigning col 1/lines 65-col 2/lines 3 and col 3/lines 54-col 4/line 2);

means (106) for sending each said query request to a server (col 2/line 22-24, col 6/lines 15-23, step 702 of Fig. 7, col 7/lines 23-30);

Art Unit: 2142

a server (110) means (316) for determining if said assigned IP address is by means of an IP lease still assigned to said requesting client computer station (col 3/lines 28-39, col 6/lines 55-col 7/line 6, 12-20); and

means (110) for sending a query response to said requesting client computer station only if said IP address is still assigned to said requesting client computer station by means of the corresponding IP lease (col 3/lines 28-39, col 6/lines 12-15 and col 7/lines 58-67).

Regarding claim 2, wherein the assignment is for only as long as the one particular requesting client computer station continues to renew his/her IP address lease via corresponding query request (col 7/lines 40-42).

Regarding claim 3, means enabling the dynamic reassigning of an IP address to another requesting client station upon the discontinuance of a periodic query request from one requesting client station (col 6/lines 28-34).

Regarding method claims 8 and 9 these claims are substantially the same as the system claims 2 and 3 discussed above, same rationale of rejection is applicable.

Regarding the computer implementation claims 14 and 15 these claims are substantially the same as the system claims 2 and 3 same rationale of rejection is applicable.

Claim Rejection under 35 U.S.C 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 4-6, 10-12 and 16-18 rejected under 35 U.S.C. 103(a) as being unpatentable over LIM in view of RODWIN et. al. U.S. Patent No. 5,812,819 (Rodwin).

Art Unit: 2142

Regarding claim 4, however Lim does not explicitly teach where the client computer station is an wireless mobile device.

Rodwin teaches a system/method with the field of endeavor of instant application (col 1/lines 5-14) including a client computer station such as a wireless mobile device (col 1/lines 36-39) for accessing a computer network including a service access provider supporting said wireless mobile device (col 1/lines 48-57), wherein said service access provider includes a server for dynamically assigning IP addresses to requesting client stations (col 1/lines 58-col 2/lines 9).

It would have been obvious to one ordinary skilled in the art at the time the invention was made given Lim's teachings for assigning an IP address already assigned to another client, suggesting that the client system may be selected from a range of differing device operable in other networking technologies and topologies other than discussed. One ordinary skilled in the art would be motivated to combine the teachings of the Lim and Rodwin references enabling the assignment of the same IP address to the requesting client even if the client's communication was interrupted and the client is subsequently using a different device for accessing the network, as taught by Rodwin.

Regarding claim 5, means for receiving a wireless query request from said mobile station within a limited range of transmission distance; and wherein said mobile station is enabled to move out of said limited range to thereby discontinue said query request.

Official Notice (see MPEP § 2144.03 Reliance on "Well Known" Prior Art) is taken that wireless communication device can only communicate with other device when within a limited range of transmission distance was old and well known in the Data Processing art. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to include this because moving stations typically loose contact with the base or relay station because of interruptions of communication caused by obstacles and movement of the communication device outside a wireless distance range base on associated transceiver capabilities (e.g. Ref A-B).

Regarding claim 6, database means (316) for recording the IP addresses dynamically assigned to client stations (Lim: col 6/lines 45-54 and col 7/lines 12-20) used for determining if said assigned address is still assigned access to said database (Lim: col 3/lines 28-39, col 6/lines 55-col 7/line 6).

Regarding method claims 10-12, these claims are substantially the same as the system claims 4-6 discussed above, same rationale of rejection is applicable.

Art Unit: 2142

Regarding the computer implementation claims 16-18, these claims are substantially the same as the system claims 4-6, same rationale of rejection is applicable.

Pertinent Prior Art:

6. The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure; pertinence is presented in accordance with MPEP§ 707.05. Copies of Non-patent literature (NPL) documents cited will be provided as set forth in MPEP§ 707.05(a):

Ref A: JP -410068629A (1998)

Contact between a base station 1 and a moving station 2 is unabled because of the interruption of communication by an obstacle and the movement thereof outside a wireless distance range, the base station 1 provides a direction to another moving station 3 existing within a communication range with the base station to conduct a poling to the moving station 2 so that the moving station 3 involved functions as a relay station and the poling to the moving station 2 is carried out.

Ref B: U.S. 6,130,881 (2000)

Conventional wireless networks typically permit nodes to communicate only if they are within range of each other (i.e., in the same "cell"). However, even when relatively powerful transmitters are used, communications may be interrupted when the source node or a destination node leaves the cell, these systems are limited by the distance and direction to the destination node from the source node.

Ref C: Derwent (1998-517420)

Teaches means for determining if an IP address is still assigned to a particular client, including confirming the IP address temporarily assigned to each communication terminal by automatic recognition.

Ref D: Using DHCP with computers that move, Perkins, C.E., & Luo, K., Wireless Networks, 1(3), 1995.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prieto, B. whose telephone number is (703) 305-0750. The Examiner can normally be reached on Monday-Friday from 6:00 to 3:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Jack B. Harvey can be reached on (703) 305-9705. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800/4700.

Art Unit: 2142

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system, status information for published application may be obtained from either Private or Public PAIR, for unpublished application Private PAIR only (see <http://pair-direct.uspto.gov> or the Electronic Business Center at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to the Central Fax Office:

(703) 872-9306, for Official communications and entry;

Or Telephone:

(703) 306-5631 for TC 2100 Customer Service Office.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington VA, Fourth Floor (Receptionist), further ensuring that a receipt is provided stamped "TC 2100".

B. Prieto
B. Prieto
TC 2100
Patent Examiner
September 11, 2004